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Kutzing; *Navicula amphisbæna*, Bory, *N. peregrina*, Ehr., *N. permagna*, Bailey, *N. prætexta*, Ehr., *N. veneta*, Kutz.; *Nitzschia bilobata*, W. Sm., *N. epithemioides*, Brebisson, *N. marina*, Grunow, *N. Sigma*, W. Sm., *N. vivax*, W. Sm.; *Pleurosigma Balticum*, W. Sm., *P. fasciola*, W. Sm.; *Rhaphoneis amphiceros*, Ehr.; *Scoliopleura tumida*, Rabenhorst; *Stauroneis aspera*, Ehr.; *Triceratium alternans*, Bailey, *T. favus*, Ehr.

#### ON ALGÆ IN THE BAY.

*Achnanthes brevipes*, Agardh; *Berkleya fragilis*, Greville; *Biddulphia aurita*, Breb., *B. lævis*, Ehr., *B. pulchella*, Gray; *Cocconeis scutellum*, Ehr.; *Grammatophora marina*, Kutz.; *Licmophora flabellata*, Ag., *L. tincta*, Grun.; *Melosira nummuloides*, Kutz.; *Rhabdonema Adriaticum*, Kutz., *R. arcuatum*, Kutz.; *Schizonema Americanum*, Grun., *S. Grevillii*, Ag.; *Striatella unipunctata*, Ag.; *Synedra fulgens*, W. Sm.

#### IN POOLS ON THE MARSHES NEAR THE MAINLAND.

*Amphiprora pulchra*, Bailey; *Bacillaria paradoxa*, Gmelin; *Melosira nummuloides*, Kutz.; *Pleurosigma Balticum*, W. Sm., *P. fasciola*, W. Sm., *P. hippocampus*, W. Sm.

#### IN BRACKISH DITCHES AND MARSHES NEAR ABSECON.

*Actinoptychus undulatus*, Ehr.; *Amphiprora pulchra*, W. Sm.; *Cocconeis scutellum*, Ehr.; *Coscinodiscus subtilis*, Ehr.; *Cyclotella operculata*, Kutz.; *Navicula elegans*, W. Sm., *N. didyma*, Kutz., *N. peregrina*, Ehr., *N. pusilla*, W. Sm., *N. Smithii*, Breb., *N. forcipata*, Grev.; *Nitzschia dubia*, W. Sm., *N. fasciculata*, Grun., *N. granulata*, Grun., *N. Scalaris*, W. Sm., *N. Sigma* (W. Sm.) var. *rigidula*, Grun.; *Rhaphoneis amphiceros*, Ehr.; *Rhoicosphenia curvata*, Grun.; *Stauroneis salina*, W. Sm.; *Surirella angusta*, Kutz.; *S. Febigerii*, Lewis, *S. gemma*, Ehr., *S. Molleriana*, Grun., *S. ovata*, Kutz.; *Tryblionella levidensis*, W. Sm.

#### Notes on the Flora of the Upper Chemung Valley.

Unless otherwise specified, all the plants mentioned are found in the vicinity of Painted Post, Steuben Co., N. Y., which is situated at the junction of the Canisteo and Conhocton, the two streams that form the Chemung.

*Ranunculus ambigens*, Watson. Found in two localities, in one of which it is plentiful.

*Hypericum Ascyron*, L. Not uncommon.

*Hypericum corymbosum*, Muhl. Occasional.

*Malva moschata*, L. Scarce.

*Linum Virginianum*, L. Not common.

*Polygala Senega*, L. Plentiful in one locality.

*Trifolium agrarium*, L. Frequent.

*Melilotus officinalis*, Willd. Rare.

*Vicia Americana*, Muhl. Abundant in a meadow near Erwin Centre.

*Hydrangea arborescens*, L. Not uncommon in shaded, rocky places.

*Gaura biennis*, L. Not uncommon.

*Enothera fruticosa*, L. Scarce.

*Thaspium barbinode*, Nutt. Locally abundant.

*Aralia quinquefolia*, Gray. Occasional.

*Linnæa borealis*, L. Frequent.

*Lobelia spicata*, Lam. Rare; seems to be disappearing.

*Calystegia spithameus*, L. Not uncommon.

*Campanula Americana*, L. Several specimens along "The Narrows" of the Chemung River above Elmira

*Penstemon pubescens*, Solander. Grows in great profusion along the river banks.

*Veronica Virginica*, L. Scarce.

*Gerardia pedicularis*, L. Slope of West Hill, Elmira.

*Castilleja coccinea*, Spreng. With yellow variety, abundant in one station.

*Monarda didyma*, L. Frequent.

*Monarda Clinopodia*, L. Occasional specimens near Painted Post, and a number near "The Narrows" above Elmira.

*Monarda fistulosa*, L., var. *mollis*, Benth. Not uncommon.

*Galeopsis Tetrahit*, L. Occasional in gardens, Painted Post and Elmira.

*Asclepias tuberosa*, L. Grows abundantly on rocky hillside east of Painted Post.

*Blitum capitatum*, L. Rare; Mulhollen.

*Euphorbia corollata*, L. In July, 1887, was found growing abundantly in "The Narrows" above Elmira.

*Corallorhiza multiflora*, Nutt. Scarce.

*Calopogon pulchellus*, R. Br. Scarce.

*Cypripedium spectabile*, Swartz. Scarce; Beartown.

*Erythronium albidum*, Nutt. Two specimens; but the locality has never been revisited at the proper season since the plant was discovered there.

*Chamaelirium luteum*, Gray. Not uncommon.

*Allium cernuum*, Roth. Frequent on the rocky banks of the upper Chemung.

*Panicum xanthophysum*, Gray. Rare.

In a peat bog in Beartown grow *Sarracenia purpurea*, L., *Drosera rotundifolia*, L., *Menyanthes trifoliata*, L., *Calla palustris*, L., and *Arethusa bulbosa*, L.

On the borders of this swamp are found *Coptis trifolia*, Salisb., *Geranium Carolinianum*, L., and *Viburnum cassinoides*, L.

ISABEL S. ARNOLD.

### *Capsicum fasciculatum*—sp. nov.

Stems smooth, green, round, subverrucose, swollen at the branchings and purple, dichotomous or trichotomous. Branches angular, few, erect-spreading, green, purple at insertion of petioles, subpubescent, bearing the leaves for the most part clustered or bunched at the swollen summits. Leaves spreading, crowded into bunches, nearly of one size, the larger ones  $3\frac{3}{4}$  in. by  $1\frac{1}{8}$  in., usually 3 in. by  $\frac{3}{4}$  in., elliptical-lanceolate, pointed at both ends, from the base extending equally into the petiole, deep green above, paler below, the middle nerve distinct; slightly scabrous, entire or subrepand; borne almost entirely in a confused mass along with the berries at the summit of branches, very rarely lower down. Petioles smooth, nearly as long as, or sometimes even longer than the leaves, slender, margined by the extension of the leaf blade. Peduncles smooth, angular, thickish, erect, enlarging towards calyx end, rather long,  $1\frac{1}{2}$  in., grouped in clusters rather confusedly with the leaves, but the tendency of the grouping seeming to be in twos or threes, axillary or extra axillary. Calyx cyathiform, embracing base of fruit, obscurely